

5 TRANSMITTER HAVING PROGRAMMABLE TRANSMISSION PARAMETERS
TEMPORALLY ALIGNED WITH PAYLOAD AND METHOD THEREFOR

Abstract of the Disclosure

10 A software-defined radio (12) includes a
transmitter (20) having any number of upstream modules
(30) and any number of downstream modules (34). The
upstream modules (30) perform signal processing on
input signals (28), and the downstream modules (34)
15 provide an RF interface for processed signals (58).
The upstream modules (30) and downstream modules (34)
couple to a common intra-transmitter signal transporter
(32), which may be implemented as a bus. Programmable
transmission parameters (60) which program the
20 downstream modules (34) to generate a communication
signal (18) exhibiting desired attributes such as
frequency and keying are mingled with the processed
input signal (58) in upstream modules (30) to preserve
timing. The programmable transmission parameters (60)
25 are extracted in downstream modules (34), and applied
to the communication signal (18) at the timing
specified by position relative to the processed input
signal (58).